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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/501,805	07/19/2004	Kazunori Sata	09852/0201645-US0	6617	
7590 11/23/2005			EXAM	INER	
Darby & Darby			TURNER, ARCHENE A		
805 Third Aven	iue				
New York, NY	10022		ART UNIT	PAPER NUMBER	
	•		1775		
			DATE MAILED: 11/23/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)	j			
		10/501,805	SATA ET AL.				
		Examiner	Art Unit				
		Archene Turner	1775				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	ith the correspondence address	••			
A SHOWHIC - Externafter - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MOI, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).				
Status							
2a)□	2a)☐ This action is <b>FINAL</b> . 2b)☒ This action is non-final.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□ 10)□	Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1 and 2 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/o on Papers  The specification is objected to by the Examine The drawing(s) filed on is/are: a) according a content of the drawing sheet(s) including the correct of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examine Replacement of the sheet (s) including the correct of the oath or declaration is objected to by the Examine Replacement of the sheet (s) including the correct of the oath or declaration is objected to by the Examine Replacement of the sheet (s) including the correct of the oath or declaration is objected to by the Examine Replacement of the sheet (s) including the correct of the sheet (s) including the c	wn from consideration.  r election requirement.  r.  epted or b) objected to drawing(s) be held in abeya ion is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.1.	` '			
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment	i(s)						
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 7/04.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 				

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrases "tungsten carbide based cemented carbide", "titanium carbonitride based cermet" and "cubic boron nitride based sintered material" in the claims render them indefinite. This rejection can be overcome by deleting the word "based" from these phrases.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 4. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakurai (6,309,738).

Sakurai discloses the claimed TiAlN alternating layers with the claimed Al proportions (column 2, lines 61-64) and thicknesses (column 2, line 58), made by the claimed method (see example I).

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5. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kobe Steel (JP 11-061380).

Kobe Steel discloses the claimed TiAIN alternating layers with the claimed Al proportions and thicknesses made by the claimed method.

6. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Sumitomo Electric (JP 07-097679).

Sumitomo Electric discloses the claimed TiAIN alternating layers with the claimed.

Al proportions and thicknesses, made by the claimed method.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Archene Turner whose new telephone number is (571) 272-1545. The examiner can normally be reached on Monday through Wednesday, and Friday from 10:30 am. to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Please remember to include on the fax, the art unit 1775, serial number and Examiner's name.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. A. Turner
Primary Examiner

**Group 1700** 

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